121009-1

MODEL: DG458

DigiSender® ZX7

5.8GHz Quad Input Wireless AV Sender

WATCH A VIDEO INSTALLATION
& TROUBLESHOOTING GUIDE
Available online at: www.aei.eu/video

PLEASE KEEP THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE

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AEI Security & Communications

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WARNING
To prevent damage do not expose this unit to rain or moisture.

Introduction

Congratulations on purchasing the DigiSender® ZX7 - Quad Input 5.8GHz Wireless AV Sender. This product represents state of the art wireless audio and video technology and the most advanced Infra-Red relay technology at exceptional value for money.

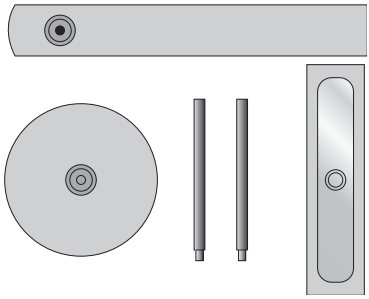
You can now enjoy DVD quality video and Hi-Fi stereo sound from your Satellite, Cable, Freeview, DVD or VCR in another room in your home.

The DigiSender® ZX7 is a quad input wireless AV sender with a difference. Because it uses 5.8GHz to transmit rather than the much more common 2.4GHz, you can use the DigiSender® ZX7 without the worry of interference from wireless routers, Bluetooth devices and other wireless products. It also incorporates our advanced DigiEye™ remote relay technology allowing flawless operation with every set top box ever made.

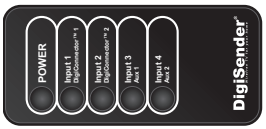
Benefit from 5.8GHz transmission, 4 Inputs, 4 Audio/Video Channels, 16 Remote Relay Channels and unsurpassed compatibility with the new DigiSender® ZX7!

STEP 1 - Unpack your DigiSender® ZX7

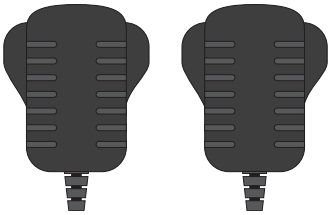
All DigiSender® orders are computer weight checked when packed. However, it is a good idea to check all kit contents are present before proceeding with the installation.



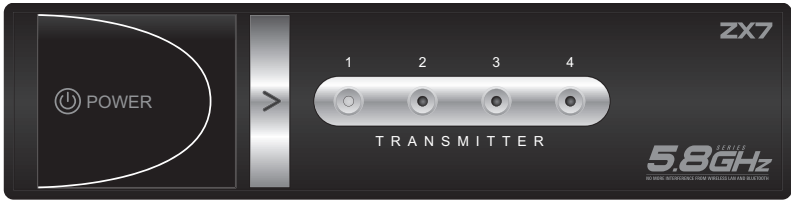
IR Systeme Technik™



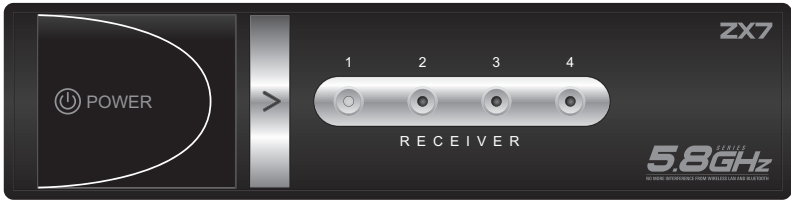
Remote Control



2 x Power Supply



Transmitter



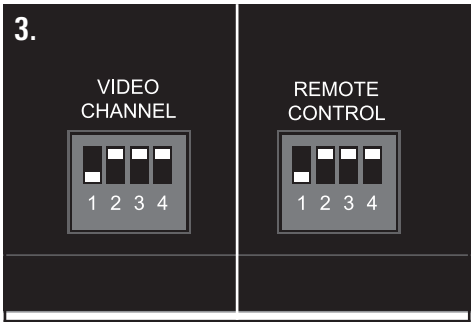
Receiver

STEP 2 - Install the DigiSender® ZX7 Transmitter

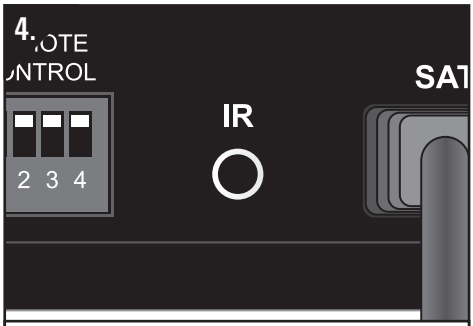
The Transmitter will send the audio and video from up to four connected sources (your Satellite and DVD Player for example) to the Receiver, located in another room in your home.

Connect DigiConnector™ 1 to your Satellite, Cable or Freeview box. Use the SCART socket labelled 'TV' or 'OUT'. *Connect any existing SCART lead into the rear of the DigiConnector™.*

Connect DigiConnector™ 2 to your DVD Player, HDD Recorder or VCR. Use the SCART socket labelled 'TV' or 'OUT'. *Connect any existing SCART lead into the rear of the DigiConnector™.*



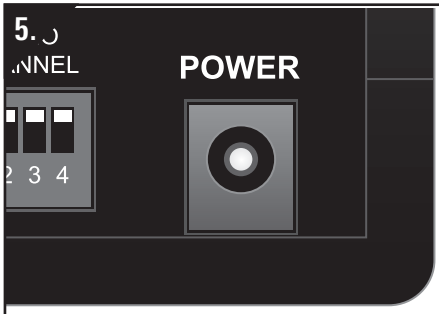
Ensure that the Audio/Video and Remote Relay Channel switches on the back of the Transmitter are set to 1.



Connect the IR Emitter to the socket labelled 'IR' on the back of the Transmitter. *See Page 07 for more information on installing the IR Systeme Technik™.*

continued...

Note: *Try to avoid positioning the Transmitter directly on top of other electrical devices as this could lead to a poor picture.*



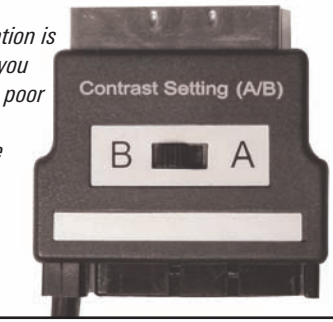
Connect the Power Supply Unit (PSU) to the socket labelled 'PSU' on the rear of the Transmitter.

Connect the Power Supply Unit (PSU) to an available mains socket and switch on at the back of the Transmitter.

What's the A/B switch for??

The Contrast (A/B) switch is present to compensate for differences in equipment set-ups.

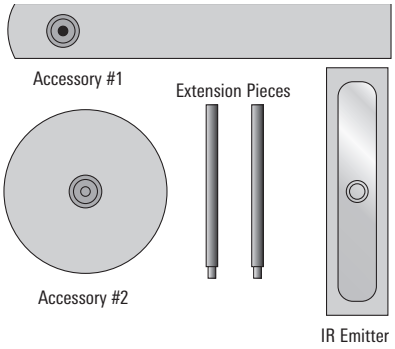
Once installation is complete, if you experience a poor picture try adjusting the A/B setting.



STEP 3 - Install the IR Systeme Technik™

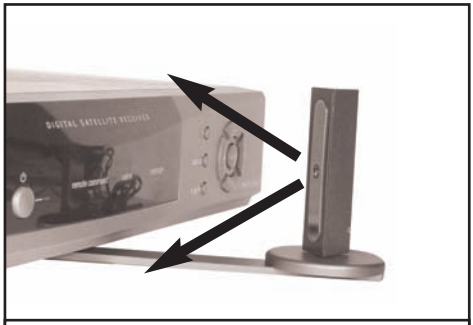
Once set up correctly, the IR Systeme Technik™ will enable you to control your source equipment from the receiving location in your home.

Because everyone's set up is different there are many ways you can install the IR Systeme Technik™ and the various included accessories will help you in setting it up correctly.



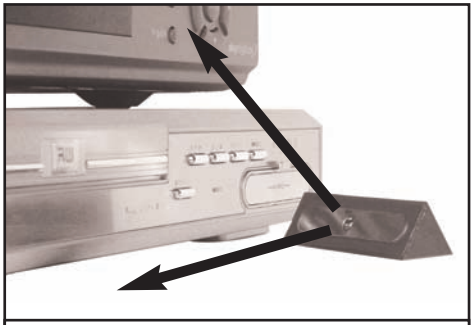
I•R SYSTEME TECHNIK

Example 1



Mount the IR Emitter vertically using accessories 1 and 2. Ensure the LED is facing the remote control pick up point on your source equipment.

Example 2

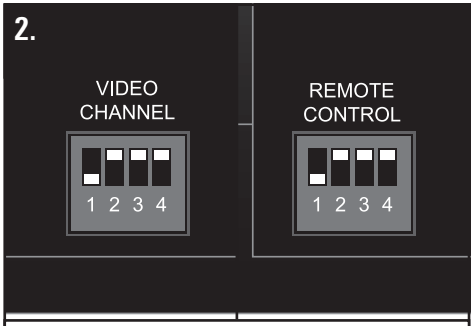


Mount the IR Emitter horizontally using the supplied sticky pad. Ensure the LED is facing the remote control pick up point on your source equipment.

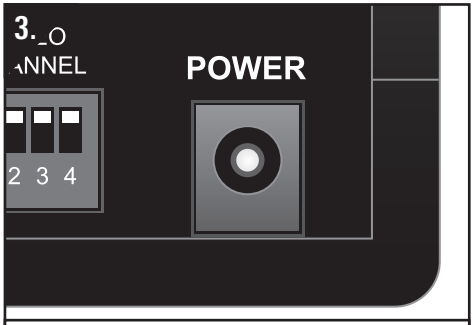
STEP 4 - Install the DigiSender® ZX7 Receiver

The Receiver will pick up the signals being sent by your Transmitter and output them to a connected TV.

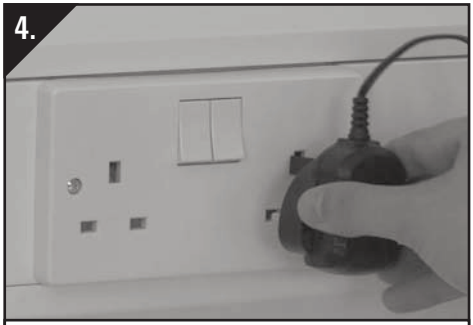
Locate a vacant SCART socket on the back of your receiving TV and insert the DigiSender® SCART cable.



Ensure that the Audio/Video and Remote Relay Channel switches on the back of the Receiver are set to 1.



Connect the Power Supply Unit (PSU) to the socket labelled 'PSU' on the Receiver.



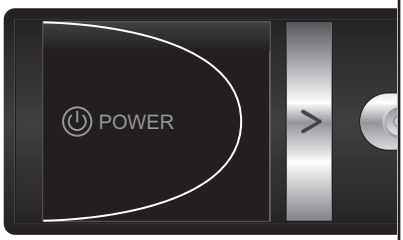
Connect the Power Supply Unit (PSU) to an available mains socket and switch on at the back of the Receiver.

STEP 5 - Using the DigiSender® ZX7

1.

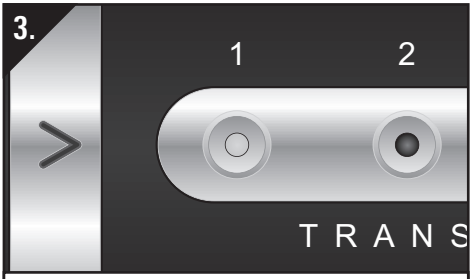
Switch on the source equipment *(Satellite, Freeview, DVD, VCR, etc.).*

2.



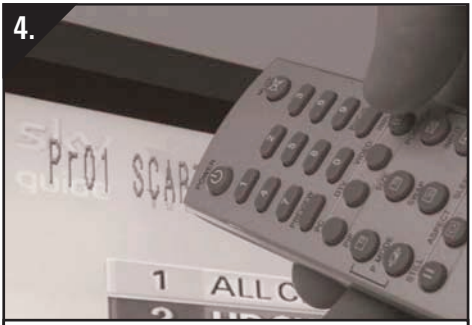
Turn on the Transmitter and Receiver by pushing the Power button on the front of the units. The standby LED will change from red to green to indicate the unit is switched on. *Alternatively press the Power button on the DigiSender® Remote Control.*

3.



Select Input 1 by pressing the Power button again on the Transmitter and Receiver. The green Input LED will light to indicate which source is active. *Alternatively press the 'Input 1' button on the DigiSender® Remote Control at the transmitting location.*

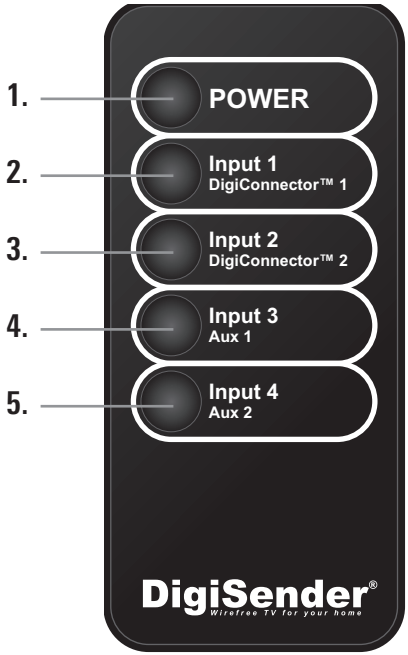
4.



On the receiving TV, select the SCART channel assigned to the SCART socket that you plugged the DG458 Receiver in to. *This may be labelled as SCART, AUX, AV, VIDEO, VCR or* ⇐.

Using the DigiSender® ZX7

The DigiSender® Remote Control



1. POWER
   The **POWER** button will turn your DigiSender® ZX7 Transmitter or Receiver On or Off.

2. Input 1
   The **Input 1** button will select Input 1 on the Transmitter and Receiver. Input 1 will be what ever source equipment is connected to DigiConnector™ 1. *For example, a Satellite, Cable or Freeview box.*

3. Input 2
   The **Input 2** button will select Input 2 on the Transmitter and Receiver. Input 2 will be what ever source equipment is connected to DigiConnector™ 2. *For example, a DVD Player.*

4. Input 3
   The **Input 3** button will select Input 3 on the Transmitter and Receiver. Input 3 will be what ever source equipment is connected to the Aux 1 socket on the Transmitter. *For example, a DVR or VCR.*

5. Input 4
   The **Input 4** button will select Input 4 on the Transmitter and Receiver. Input 4 will be what ever source equipment is connected to the Aux 2 socket on the Transmitter. *For example, a CCTV Camera.*

Using the DigiSender® ZX7
Basic Functions

Turning the DigiSender® ZX7 On and Off

To turn the DigiSender® ZX7 **On**, press the power button on the front of the Transmitter and Receiver.
The red standby LED will light up green to indicate that the unit is switched on.

To turn the DigiSender® ZX7 **Off**, press and hold the power button on the front of the Transmitter and Receiver for approximately 3 seconds.

Alternatively you can turn the units On and Off by pressing the power button on the DigiSender® Remote Control.

Selecting the Input

To select Input 1 press the power button on the front of the Transmitter once.
Input LED 1 will light up green to indicate that the unit is set to input 1.

To select Input 2 press the power button on the front of the Transmitter a second time.
Input LED 2 will light up green to indicate that the unit is set to input 2.

To select Input 3 press the power button on the front of the Transmitter a third time.
Input LED 3 will light up green to indicate that the unit is set to input 3.

To select Input 4 press the power button on the front of the Transmitter a fourth time.
Input LED 4 will light up green to indicate that the unit is set to input 4.

Alternatively you can select the Input by pressing the button labelled 'Input 1', 'Input 2', 'Input 3' or 'Input 4' on the DigiSender® Remote Control at the transmitting location.

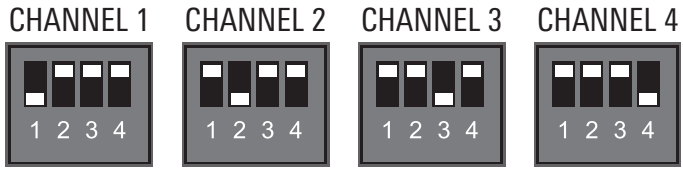
Please note that you can only switch inputs at the transmitting location and not the receiving location.

Using the DigiSender® ZX7
Advanced Functions

Changing the Audio/Video Channel

The DigiSender® ZX7 features 4 Audio/Video Channels. Each of these Audio/Video Channels slightly changes the frequency on which the DigiSender® ZX7 operates. Because the Audio/Video Channel switch allows you to 'fine tune' the frequency on which your DigiSender® ZX7 operates, it is possible to overcome most interference and reception troubles that may occur.

To change the Audio/Video Channel on your DigiSender® ZX7, simply change the position of the Audio/Video Channel switches to match below.



For your DigiSender® ZX7 to function correctly it is very important that the Audio/Video Channel settings are the same on both the Transmitter and Receiver and that only 1 switch is down at any time.

Changing the Remote Relay Channel

The DigiSender® ZX7 combines our advanced DigiEye™ technology with the IR Systeme Technik™ Remote Relay kit and features 16 digital Remote Relay Channels.

To change the Remote Relay Channel on your DigiSender® ZX7, simply change the position of the Remote Relay Channel switches. Any combination of up and down switches can be used.

For your DigiSender® ZX7 to function correctly it is very important that the Remote Relay Channel settings are the same on both the Transmitter and Receiver.

Upgrades & Accessories

Additional Receiver - DG45RX

- Get your Satellite channels to additional TV's in your home!
- Add as many Receivers as you require to your DigiSender® system
- Connect to any SCART enabled TV or use with the MOD01PIS Aerial Converter
- Supplied with Power Supply Unit
- Requires existing DigiSender® ZX7 Transmitter

Aerial Convertor - MOD01PIS

- Connect a DigiSender® Receiver to an aerial socket on your TV
- Shares the power supply with your DigiSender®
- Test Card signal for easy set up
- Compatible with every UK television
- Adds the DigiSender® signal to your existing aerial signal

Troubleshooting

Picture Problems

Q: What do you see on your second television?

The picture is present but poor quality

I see a black or blank screen

POOR RANGE

1. The picture & sound quality is affected by the Transmitter and Receiver's location. Try positioning them in different locations. The Transmitter and Receiver should be connected to a mains extension lead that can be moved.
2. Try the other 3 available Audio/Video channels ensuring that the Audio/Video Channel setting is the same on both the Transmitter and Receiver.
3. Ensure the units are within the usable range, normally this would be 40m when passing through 2 average internal walls. Thicker or stone/granite walls may lower the usable range of this device.

Switch OFF your DigiSender® TRANSMITTER
What do you now see at the *second* TV?

I still see a Black Screen...

WRONG AV CHANNEL SELECTED

1. Switch the Transmitter back on.
2. Ensure the correct SCART channel is selected on your second television. Some televisions feature multiple AV channels for one or more SCART, phono and S-Video inputs.
3. If available try another SCART socket on the second television.

I now see a snowstorm or blue screen...

RECEIVING BLANK SIGNAL

1. Switch the Transmitter on.
2. Ensure the Transmitter is connected to your source device (such as your Satellite, Cable, Freeview, DVD or VCR).
3. Ensure that your source device is switched on.
4. Use the supplied DigiSender® Remote Control to select the correct Input. This can be done at either the Transmitter or Receiver.

cont...

I see a snowstorm effect or plain blue screen

I see lines over the picture

Switch OFF your DigiSender® RECEIVER.
Q: What do you now see at the *second* TV?

I now see a Black screen

NOT RECEIVING SIGNAL

1. Switch the DigiSender® Receiver back on.
2. Ensure the DigiSender® Transmitter is switched on.
3. Try the other 3 available Audio/Video channels ensuring that the Audio/Video Channel is set the same on both the Transmitter and Receiver.

I still see a snowstorm or blue picture

WRONG TV CHANNEL SELECTED

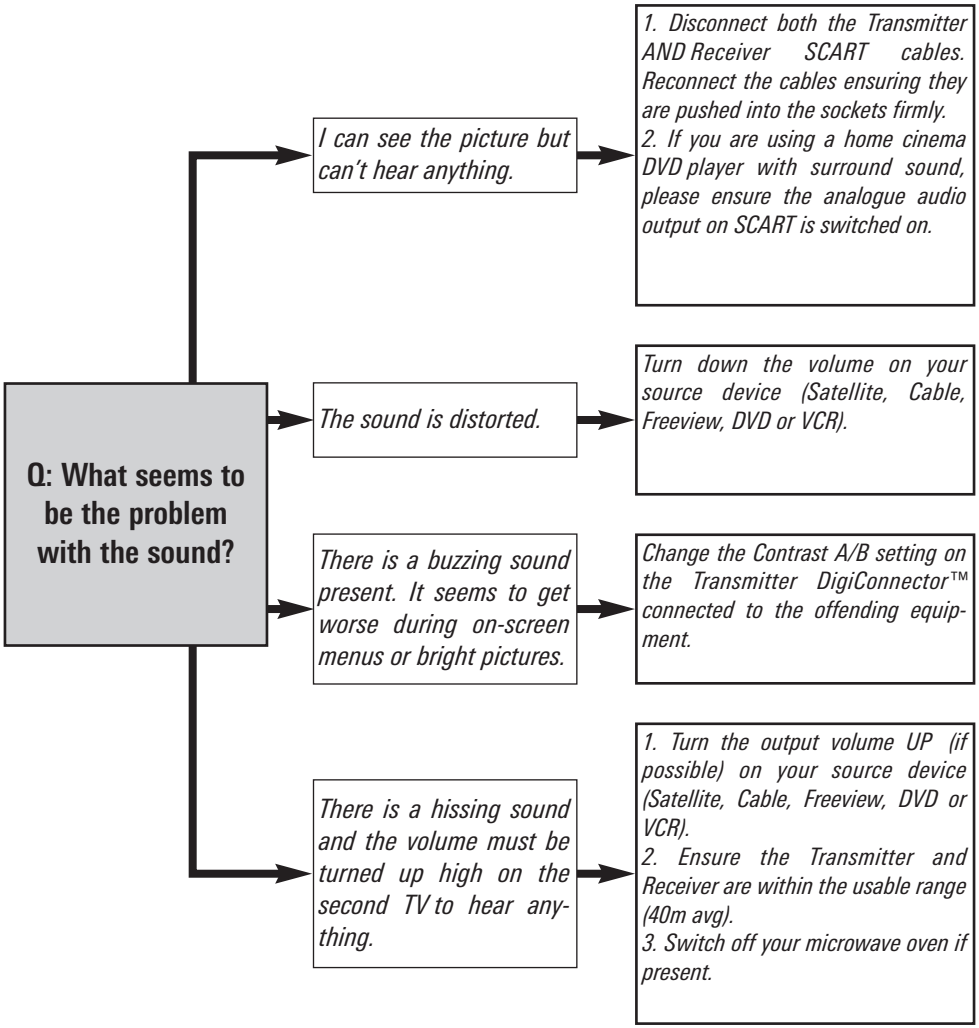
This indicates that the correct SCART Channel has NOT been selected on the second television. Look for buttons on this televisions remote control which could select the AV Channel such as EXT, AV, VIDEO, VCR, AUX, Channel 0 AND .

INTERFERENCE

This indicates one or more electrical devices are interfering with the DigiSender®. Make sure the Transmitter and Receiver are not directly on top of other electrical devices. Try all 4 Audio/Video Channels on your DigiSender® as one or more may still be available. Visit digisender.net or contact our helpline for information on configuring your equipment to work together.

Troubleshooting

Audio Problems


Q: What seems to be the problem with the sound?
I can see the picture but can't hear anything.
1. Disconnect both the Transmitter AND Receiver SCART cables. Reconnect the cables ensuring they are pushed into the sockets firmly.
2. If you are using a home cinema DVD player with surround sound, please ensure the analogue audio output on SCART is switched on.
The sound is distorted.
Turn down the volume on your source device (Satellite, Cable, Freeview, DVD or VCR).
There is a buzzing sound present. It seems to get worse during on-screen menus or bright pictures.
Change the Contrast A/B setting on the Transmitter DigiConnector™ connected to the offending equipment.
There is a hissing sound and the volume must be turned up high on the second TV to hear anything.
1. Turn the output volume UP (if possible) on your source device (Satellite, Cable, Freeview, DVD or VCR).
2. Ensure the Transmitter and Receiver are within the usable range (40m avg).
3. Switch off your microwave oven if present.

Troubleshooting

Problems Controlling the Source Equipment

If you have any difficulty operating your source equipment remote control in your second room please follow the advice below below:

1) Ensure the IR Emitter is connected to the socket labelled 'IR' on the Transmitter.

2) Ensure you are using the correct remote control in the second room. For instance, if you are trying to control your Satellite Receiver you will need to use the Satellite remote control.

3) Ensure the IR Emitter is facing the Infra Red remote control pick up point on your source equipment.

4) Move the IR Emitter further away from the source equipment.

5) Move the Transmitter AND Receiver further away from other electrical devices.

6) Try operating your source remote control closer to the Receiver.

7) Replace the batteries in your source remote control.

8) Change the Remote Relay Channel on both the Transmitter AND Receiver.

Technical Support

AEI Security & Communications Ltd is dedicated to providing our customers with first class customer care and technical support.

During busy periods we would suggest using the web option to obtain support.

1. On the web...

Free technical advice is available online 24/7 at our dedicated support web site:

www.aei.eu

2. By telephone...

We have a dedicated helpline, open Monday to Friday, 9AM - 5PM.

Please note that calls are charged at the local rate and your call may be recorded for training purposes.

UK Customers only:
0845 166 7940

Overseas Customers:
+44 (0) 1797 226123

DECLARATON OF CONFORMITY
01022007/01/DX-DG-DV

We,

AEI Security & Communications Ltd
Weslake Industrial Park, Harbour Road, Rye, East Sussex TN31 7TE, United Kingdom.

declare under our sole responsibility that the products referred to as DigiSender, XSender and PlugSender bearing the series codes prefixed:

DX*x*, DG*x*, DV*x* *(x refers to the specific model number)*

are in conformity with the essential requirements of Directive 1995/5/EC. These products have been tested against the following standards and specifications:

Low Voltage Directive

EN60950:2000	*Safety of information technology equipment*

Electromagnetic Compatibility Directive

EN 301 489-3 V1.3.1: 11-2001	*Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz*
EN 301 489-1 V1.3.1: 09-2001	*Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements*

Radio spectrum

EN 300 440-1 V1.1.1: 09-2001	*Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods*

Power Supply

EN55022: 2003	*Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement*
EN55024: 2003	*Information technology equipment. Immunity characteristics. Limits and methods of measurement*
IEC 61000-3-2: 2001	*Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)*
IEC 61000-3-3:2001	*Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection*

The product is marked with the CE marking and Notified Body Number according to directive 1999/5/EC

RoHS COMPLIANT

Pb Lead Free

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

CE 0560

LOW POWER WIRELESS A/V PRODUCT OPERATING ON 5.8GHz

AEI SECURITY & COMMUNICATIONS

NOTE: Original DoC has been signed

SPECIFICATIONS

DG458 Transmitter :

Remote Relay Receiver	433.92MHz
Audio/Video Frequency	5.7250GHz ~ 5.8750GHz
Modulation	FM
Video Input Level	1V PP/75Ω
Colour Video Input	Phase Alternate Line (PAL)
Audio Input Level	1.0v PP (Mod 1KHz, Dev 15KHz)
Audio Bandwidth	20Hz - 20KHz (-3dB)
Input Connectors	2x DigiConnector™ SCART, 2x Phono (Video, Audio L & R)
Power Source	DC

DG458 Receiver :

Remote Relay Transmitter	433.92MHz
Audio/Video Frequency	5.7250GHz ~ 5.8750GHz
Modulation	FM
Video Output Level	1V PP/75Ω
Sensitivity	-90dBm
Audio Output Level	1.0V PP (Mod 1KHz, Dev 15KHz)
Audio Bandwidth	20Hz - 20KHz (-3dB)
Output Connectors	Euro SCART, Phono (Audio L & R)
Power Source	DC

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United Kingdom

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DigiSender is a registered trademark of AEI Security & Communications Ltd.